



IES INDOOR REPORT
PHOTOMETRIC FILENAME : EGW-4-LED-17L-CA-S-40-80.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 3649
 [TESTLAB] TUV SUD America
 [TESTDATE] 1/16/2019 1:57:47 PM
 [ISSUEDATE] 03/11/21
 [MANUFAC] LSI INDUSTRIES, INC.
 [LUMCAT] EGW-4-LED-17L-CA-S-40-80
 [OTHER] TEST PROCEDURE: IESNA LM-79-08
 [ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
 [OTHER] SCALED FROM ORIGINAL TEST DATA
 [SEARCH_SOURCETYPE] LED
 [SEARCH_APPLICATION] Indoor
 [SEARCH_COLORTEMP] 4000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	18129
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	130
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.88
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.26
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.50 ft
Luminous Height	0.33 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	26829	18372	24743
55	24858	15732	19694
65	20619	11721	13246
75	21255	8366	5245
85	18588	5605	1340

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	7316	7316	7316	7316	7316	7316	7316	7316	7316	7316
2.5	6281	5918	6194	6976	7674	6432	5616	5494	5780	5494
5.0	5758	5634	4943	5351	7609	5006	5051	5383	5550	5383
7.5	6199	5672	5509	4569	7565	4755	4998	6032	6898	6032
10.0	6993	7170	5434	4708	7494	5078	5675	7594	7491	7594
12.5	6252	6451	6427	5287	7440	4869	7531	5943	5099	5943
15.0	5150	5195	6845	5506	7340	4502	6825	4373	4336	4373
17.5	5801	4856	5303	5062	7250	4592	4362	4703	6031	4703
20.0	6329	6415	4775	5124	7135	5726	3961	6294	6814	6294
22.5	5034	6058	4729	6464	6968	7693	4212	5603	4313	5603
25.0	4124	4256	5539	7334	6810	7883	5766	3937	4201	3937
27.5	3989	4009	5758	6148	6639	5601	6021	4088	5683	4088
30.0	4148	3950	4719	4452	6533	3847	4129	5345	5788	5345
32.5	4738	4081	3854	3761	6374	3446	3596	5971	5091	5971
35.0	4748	4501	3701	3996	6228	3264	4057	4828	5189	4828
37.5	4589	4545	3553	4195	6034	3299	4938	4530	4417	4530
40.0	4232	4462	3570	4436	5829	4495	5438	4479	4371	4479
42.5	3726	3963	3854	5084	5642	4990	4577	3894	4386	3894
45.0	3822	3577	3696	4348	5421	3761	3999	3929	4097	3929
47.5	3935	3680	3725	3109	5121	3346	3626	3868	3687	3868
50.0	3592	3644	3571	2766	4778	3325	3098	3774	3041	3774
52.5	2903	3338	3150	2731	4436	3303	2997	2921	3344	2921
55.0	2967	2741	2948	2596	4099	3265	2863	2757	2970	2757
57.5	2744	2736	2749	2455	3813	3116	2793	2817	2774	2817
60.0	2412	2610	2620	2323	3439	2625	2422	2236	2759	2236
62.5	2480	2308	2249	2105	2998	2150	1971	2221	2243	2221
65.0	1910	2304	1968	1817	2528	1845	1924	2197	2576	2197
67.5	1863	1903	1871	1619	2078	1569	1818	1858	2041	1858
70.0	1732	1716	1676	1475	1625	1286	1470	1997	1818	1997
72.5	1362	1675	1414	1269	1218	1005	1331	1609	1842	1609
75.0	1341	1334	1199	1040	880	810	1240	1451	1723	1451
77.5	1485	1345	1035	854	606	684	1215	1667	1701	1667
80.0	1115	1258	1037	696	407	570	1099	1206	1206	1206
82.5	708	821	931	544	275	489	773	845	927	845
85.0	588	558	641	447	187	395	522	639	711	639
87.5	476	451	420	335	127	248	417	564	639	564
90.0	433	398	307	212	82	197	376	506	575	506
92.5	413	380	252	163	73	181	372	474	534	474
95.0	414	375	239	153	77	170	378	452	484	452
97.5	361	358	241	152	78	153	358	420	421	420
100.0	293	303	232	142	74	132	319	373	391	373
102.5	261	262	217	125	67	106	281	354	391	354
105.0	244	240	203	105	57	74	238	331	375	331
107.5	228	220	186	76	48	47	195	293	337	293
110.0	207	196	161	47	40	26	163	256	299	256
112.5	183	173	135	24	32	12	132	227	264	227
115.0	164	152	106	12	24	7	93	201	240	201
117.5	149	137	77	7	16	3	59	173	219	173
120.0	137	121	53	5	11	1	42	136	189	136
122.5	114	96	36	2	6	0	29	94	143	94
125.0	86	69	25	1	3	0	13	72	104	72
127.5	64	50	8	0	1	0	1	53	81	53
130.0	46	39	0	0	0	0	0	41	58	41
132.5	36	29	0	1	0	0	0	20	42	20

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CANDELA TABULATION - (Cont.)

135.0	25	10	0	1	1	1	0	2	20	2
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles						
	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	7316	7316	7316	7316	7316	7316	7316
2.5	5616	6432	7674	6976	6194	5918	6281
5.0	5051	5006	7609	5351	4943	5634	5758
7.5	4998	4755	7565	4569	5509	5672	6199
10.0	5675	5078	7494	4708	5434	7170	6993
12.5	7531	4869	7440	5287	6427	6451	6252
15.0	6825	4502	7340	5506	6845	5195	5150
17.5	4362	4592	7250	5062	5303	4856	5801
20.0	3961	5726	7135	5124	4775	6415	6329
22.5	4212	7693	6968	6464	4729	6058	5034
25.0	5766	7883	6810	7334	5539	4256	4124
27.5	6021	5601	6639	6148	5758	4009	3989
30.0	4129	3847	6533	4452	4719	3950	4148
32.5	3596	3446	6374	3761	3854	4081	4738
35.0	4057	3264	6228	3996	3701	4501	4748
37.5	4938	3299	6034	4195	3553	4545	4589
40.0	5438	4495	5829	4436	3570	4462	4232
42.5	4577	4990	5642	5084	3854	3963	3726
45.0	3999	3761	5421	4348	3696	3577	3822
47.5	3626	3346	5121	3109	3725	3680	3935
50.0	3098	3325	4778	2766	3571	3644	3592
52.5	2997	3303	4436	2731	3150	3338	2903
55.0	2863	3265	4099	2596	2948	2741	2967
57.5	2793	3116	3813	2455	2749	2736	2744
60.0	2422	2625	3439	2323	2620	2610	2412
62.5	1971	2150	2998	2105	2249	2308	2480
65.0	1924	1845	2528	1817	1968	2304	1910
67.5	1818	1569	2078	1619	1871	1903	1863
70.0	1470	1286	1625	1475	1676	1716	1732
72.5	1331	1005	1218	1269	1414	1675	1362
75.0	1240	810	880	1040	1199	1334	1341
77.5	1215	684	606	854	1035	1345	1485
80.0	1099	570	407	696	1037	1258	1115

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82.5	773	489	275	544	931	821	708
85.0	522	395	187	447	641	558	588
87.5	417	248	127	335	420	451	476
90.0	376	197	82	212	307	398	433
92.5	372	181	73	163	252	380	413
95.0	378	170	77	153	239	375	414
97.5	358	153	78	152	241	358	361
100.0	319	132	74	142	232	303	293
102.5	281	106	67	125	217	262	261
105.0	238	74	57	105	203	240	244
107.5	195	47	48	76	186	220	228
110.0	163	26	40	47	161	196	207
112.5	132	12	32	24	135	173	183
115.0	93	7	24	12	106	152	164
117.5	59	3	16	7	77	137	149
120.0	42	1	11	5	53	121	137
122.5	29	0	6	2	36	96	114
125.0	13	0	3	1	25	69	86
127.5	1	0	1	0	8	50	64
130.0	0	0	0	0	0	39	46
132.5	0	0	0	1	0	29	36
135.0	0	1	1	1	0	10	25
137.5	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2190.62	N.A.	12.10
0-30	4740.56	N.A.	26.10
0-40	7578.14	N.A.	41.80
0-60	13493.49	N.A.	74.40
0-80	16873.92	N.A.	93.10
0-90	17475.28	N.A.	96.40
10-90	16909.45	N.A.	93.30
20-40	5387.52	N.A.	29.70
20-50	8561.29	N.A.	47.20
40-70	7981.32	N.A.	44.00
60-80	3380.43	N.A.	18.60
70-80	1314.46	N.A.	7.30
80-90	601.36	N.A.	3.30
90-110	513.51	N.A.	2.80
90-120	614.75	N.A.	3.40
90-130	648.46	N.A.	3.60
90-150	653.32	N.A.	3.60
90-180	653.32	N.A.	3.60
110-180	139.81	N.A.	0.80
0-180	18128.6	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	565.83
10-20	1624.8
20-30	2549.94
30-40	2837.58
40-50	3173.77
50-60	2741.58
60-70	2065.97
70-80	1314.46
80-90	601.36
90-100	309.07
100-110	204.44
110-120	101.24
120-130	33.71
130-140	4.86
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

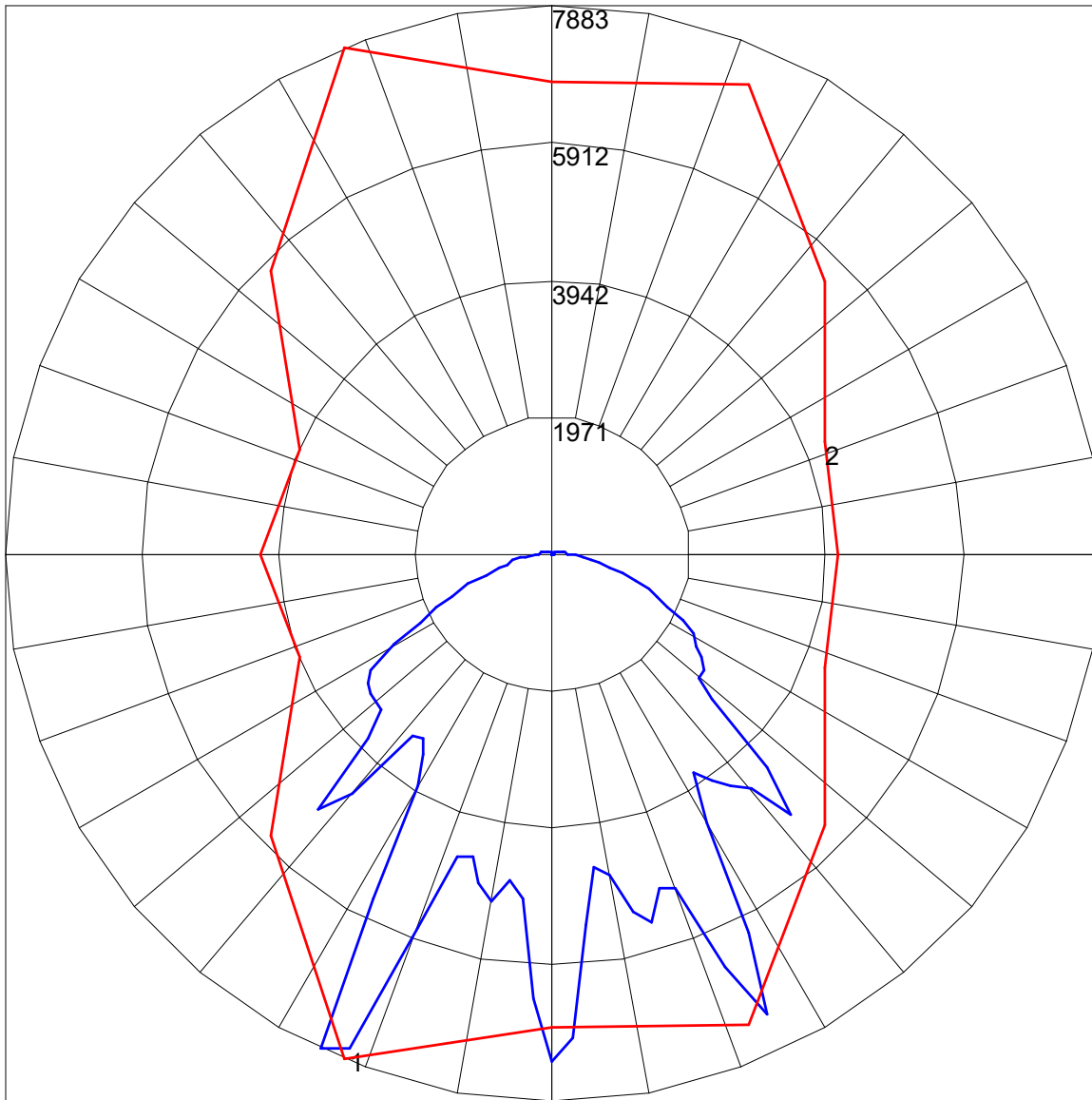
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	96
1	107	102	98	94	104	100	95	92	95	91	88	90	87	85	86	84	82	79
2	97	89	82	76	94	87	80	75	82	77	72	79	74	70	75	71	68	66
3	89	78	70	63	86	76	68	62	73	66	61	69	64	59	66	62	58	55
4	81	69	60	53	79	67	59	53	64	57	52	62	55	50	59	54	49	47
5	75	62	53	46	72	60	52	45	58	50	45	55	49	44	53	47	43	41
6	69	55	46	40	67	54	46	40	52	45	39	50	43	38	48	42	38	36
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	33	31
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	40	34	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	37	31	27	25
10	52	39	31	26	51	38	31	25	37	30	25	36	29	25	35	29	25	23

POLAR GRAPH



Maximum Candela = 7883 Located At Horizontal Angle = 112.5, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (112.5 - 292.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)